



Attach #4

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77Form PTO-1449 U.S. DEPARTMENT OF COMMERCE (Rev. 7-80) PATENT AND TRADEMARK OFFICE		ATTORNEY DOCKET NO.: 23101.0003U1		SERIAL NO. 09/784,575			
LIST OF PRIOR ART CITED BY APPLICANT (Use several sheets if necessary)		APPLICANT: CANTRELL et al.		FILING DATE: February 15, 2001			
		GROUP: 1633					
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
mm	AA	5,900,929	5/4/99	Hebrank et al.	1	1	RECEIVED SEP 05 2001 TECH CENTER 1600/2910
	AB	5,722,342	3/3/98	Line et al.	1	1	
	AC	5,699,751	12/23/97	Phelps et al.	1	1	
	AD	5,438,954	8/8/95	Phelps et al.	1	1	
	AE	5,339,766	8/23/94	Phelps et al.	1	1	
	AF	5,176,101	1/5/93	Paul et al.	1	1	
	AG	5,158,038	10/27/92	Sheeks et al.	1	1	
	AH	5,136,979	8/11/92	Paul et al.	1	1	
mm	AI	4,903,635	2/27/90	Hebrank	1	1	
FOREIGN PATENT DOCUMENTS							
mm	AJ	WO 93/15185	8/5/93	Petitte et al.	—	—	
mm	AK	FR 2 623 206	5/19/89	Bruno Patrick Colomb. abstract only	—	—	
OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)							
mm	AL	Sherman et al. "Transposition of the <i>Drosophila</i> element <i>mariner</i> into the chicken germ line" <i>Nature Biotechnology</i> 16(11): 1050-1053, 1998					
	AM	Johnston, SC "In vitro Sperm Binding, Penetration, and Fertilization of Recently Oviposited Chicken Eggs" Thesis, Graduate School of Clemson University, December, 1998					
	AN	Bakst et al. "EFFECTS OF ISOLATION AND CULTURE OF TURKEY PRIMARY FOLLICULAR OOCYTES ON MORPHOLOGY AND GERMINAL VESICLE INTEGRITY" <i>Theriogenology</i> 50: 1121-1130, November, 1998					
	AO	Cibelli et al. "Cloned Transgenic Calves Produced from Nonquiescent Fetal Fibroblasts" <i>Science</i> 280: 1256-1258, May 22, 1998					
	AP	Wakayama et al. "Full-term development of mice from enucleated oocytes injected with cumulus cell nuclei" <i>Nature</i> 394: 369-374, July 23, 1998					
	AQ	Kuroki et al. "Binding of Spermatozoa to the Perivitelline Layer in the Presence of a Protease Inhibitor" <i>Poult Sci.</i> 5: 748-752, May, 1997					
	AR	Etches and Gibbins "Strategies for the Production of Transgenic Chickens" <i>Methods Mol Biol.</i> 62:433-450, 1997					
	AS	Love et al. "Transgenic Birds by DNA microinjection" <i>Biotechnology</i> 12: 60-63, January, 1994					
	AT	Tanaka et al. "Chick Production by <i>in vitro</i> fertilization of the fowl ovum" <i>J. Reprod. Fert.</i> 100: 447-449, 1994					
mm	AU	Petitte et al. "Blastodermal Cell Transfer and Germline Chimeras" in <i>Manipulation of the Avian Genome CRC Press</i> Boca Raton, FL 84-85, 1993					

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mm	AV	Bakst, MR "Artificial Insemination Technology" in <u>Manipulation of the Avian Genome</u> CRC Press Boca Raton, FL 24-26, 1993
	AW	Barnes et al. "Influence of Recipient Oocyte Cell Cycle Stage on DNA Synthesis, Nuclear Envelope Breakdown, Chromosome Constitution, and Development in Nuclear Transplant Bovine Embryos" <i>Molecular Reproduction and Development</i> 36:33-41, 1993
	AX	Vick et al. "Transgenic birds from transformed primordial germ cells" <i>Proc R Soc Lon B Biol Sci.</i> 251(1332): 179-182, March 22, 1993
	AY	Sang et al. "Transfection of Chick Embryos Maintained Under in Vitro Conditions" in <u>Manipulation of the Avian Genome</u> CRC Press 121-133, 1993
	AZ	Campbell et al. "Nuclear-Cytoplasmic Interactions during the First Cell Cycle of Nuclear Transfer Reconstructed Bovine Embryos: Implications for Deoxyribonucleic Acid Replication and Development" <i>Biology of Reproduction</i> 49, 933-942, 1993
	BA	Nakanishi and Iritani "Gene Transfer in the Chicken by Sperm-Mediated Methods" <i>Mol Reprod Dev.</i> 36(2):258-261, Oct. 1993
	BB	First et al. "USE OF IN VITRO MATURED OOCYTES 24 HR OF AGE IN BOVINE NUCLEAR TRANSFER" <i>Theriogenology</i> 37(1): 211, 1992
	BC	Yang et al. "IMPROVED ACTIVATION BY COMBINED CYCLOHEXIMIDE AND ELECTRIC PULSE TREATMENT OF BOVINE FOLLICULAR OOCYTES MATURED IN VITRO FOR 23-24 HOURS" <i>Biol Reprod.</i> 46 (Suppl 1): 117, 1992
	BD	Fissore and Robl "Intracellular Ca ²⁺ Response of Rabbit Oocytes to Electrical Stimulation" <i>Mol Reprod Dev.</i> 32: 9-16, 1992
	BE	Kline and Kline "Repetitive Calcium Transients and the Role of Calcium in Exocytosis and Cell Cycle Activation in the Mouse Egg" <i>Dev Biol.</i> 149: 80-89, 1992
	BF	Rickords and White "Electrofusion-Induced Intracellular Ca ²⁺ Flux and its Effect on Murine Oocyte Activation" <i>Mol Reprod Dev.</i> 31:152-159, 1992
	BG	Stice and Keefer "Improved Developmental Rates for Bovine Nucleus Transfer Embryos Using Cold Shock Activated Oocytes" <i>Biol Reprod.</i> 46(Suppl 1): 166, 1992
	BH	Tombes et al. "Meiosis, Egg Activation and Nuclear Envelope Breakdown Are Differentially Reliant on Ca ²⁺ , Whereas Germinal Vesicle Breakdown Is Ca ²⁺ Independent in the Mouse Oocyte" <i>J Cell Biol.</i> 117: 799-811, 1992
	BI	Nakanishi et al. "Fertilizing Competency of Multiple Ovulated Eggs in the Domestic Fowl (<i>Gallus domesticus</i>)" <i>Mol Reprod Dev.</i> 28(2):131-135, February, 1991
	BJ	Fulka et al. "Effect of 6-Dimethylaminopurine on Germinal Vesicle Breakdown of Bovine Oocytes" <i>Mol Reprod Dev.</i> 29: 379-384, 1991
	BK	Susko-Parrish et al. "EFFECT OF BOVINE OOCYTE AGING IN VITRO ON DEVELOPMENT" <i>Biol Reprod.</i> 44(Suppl 1): 17:156 (abstract), 1991
	BL	Watanabe et al. "Independent inactivation of MPF and cytostatic factor (Mos) upon fertilization of <i>Xenopus</i> eggs" <i>Nature</i> 352: 247-248, 1991
	BM	Yang et al. "NUCLEAR TRANSFER IN RABBITS AND CATTLE BY ELECTRIC PULSE-INDUCED FUSION OF BLASTOMERES TO ENUCLEATED OOCYTES" <i>Theriogenology</i> 35(1): 298 (abstract), 1991
	BN	Shuman RM "Production of transgenic birds" <i>Experientia</i> 47(9): 897-905, September 15, 1991
	BO	Nakanishi et al. "Early Nuclear Events of in Vitro Fertilization in the Domestic Fowl (<i>Gallus domesticus</i>)" <i>Mol Reprod Dev.</i> 26(3): 217-221, July 1990
	BP	Bakst, MR "PRESERVATION OF AVIAN CELLS" <i>Developments in Animal Veterinary Sciences</i> 22: 91-108, 1990
	BQ	Collas and Robl "Factors Affecting the Efficiency of Nuclear Transplantation in the Rabbit Embryo" <i>Biol Reprod.</i> 43: 877-884, 1990
	BR	Landa and Hajkova "Diploidization of Bovine Oocytes Matured in Vitro and Parthenogenetically Activated by Electric Shock" <i>Folia Biologica</i> 36: 145-152, 1990
	BS	Nurse, P "Universal control mechanism regulating onset of M-phase" <i>Nature</i> 344: 503-508, 1990
mm	BT	Ozil, JP "The parthenogenetic development of rabbit oocytes after repetitive pulsatile electrical stimulation" <i>Development</i> 109: 117-127, 1990


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mw	BU	Stice and Robl "Activation of Mammalian Oocytes by a Factor Obtained from Rabbit Sperm" <i>Mol. Reprod. Dev.</i> 25:272-280, 1990
	BV	Swann, K "A cytosolic sperm factor stimulates repetitive calcium increases and mimics fertilization in hamster eggs" <i>Development</i> 110: 1295-1302, 1990
	BW	Yang et al. "Potential of Hypertonic Medium Treatment for Embryo Micromanipulation: II. Assessment of Nuclear Transplantation Methodology, Isolation, Subzona Insertion, and Electrofusion of Blastomeres to Intact or Functionally Enucleated Oocytes in Rabbits" <i>Mol Reprod Dev.</i> 27: 118-129, 1990
	BX	Petit et al. "Production of somatic and germline chimeras in the chicken by transfer of early blastodermal cells" <i>Development</i> 108, 185-189, 1990
	BY	Bosselman et al. "Germline Transmission of Exogenous Genes in the Chicken" <i>Science</i> 243: 533-535, 1989
	BZ	Wentworth et al. "Manipulation of Avian Primordial Germ Cells and Gonadal Differentiation" <i>Poultry Sci.</i> 68: 999-1010, 1989
	CA	Ware et al. "Age Dependence of Bovine Oocyte Activation" <i>Gamete Res.</i> 22: 265-275, 1989
	CB	Kubiak, J "Mouse Oocytes Gradually Develop the Capacity for Activation During the Metaphase II Arrest" <i>Dev Biol.</i> 136: 537-545, 1989
	CC	Onodera and Tsunoda "Parthenogenetic Activation of Mouse and Rabbit Eggs by Electric Stimulation In Vitro" <i>Gamete Research</i> 22: 277-283, 1989
	CD	Watanabe et al. "Specific proteolysis of the c-mos proto-oncogene product by calpain on fertilization of <i>Xenopus</i> eggs" <i>Nature</i> 342: 505-510, November 30, 1989
	CE	Sirard et al. "The Culture of Bovine Oocytes to Obtain Developmentally Competent Embryos" <i>Biol Reprod.</i> 39: 546-552, 1988
	CF	Nagai, T "Parthenogenetic Activation of Cattle Follicular Oocytes in Vitro with Ethanol" <i>Gamete Res.</i> 16:243-249, 1987
	CG	Thomas and Capecchi "Site Directed Mutagenesis by Gene Targeting in Mouse Embryo-Derived Stem Cells" <i>Cell</i> 51, 503-512, 1987
	CH	Salter et al. "Gene Insertion into the Chicken Germ Line by Retroviruses" <i>Poul. Sci.</i> 65: 1445-1458, 1986
	CI	Whitaker and Irvine "Inositol 1, 4, 5-trisphosphate microinjection activates sea urchin eggs" <i>Nature</i> (London) 312: 636-639, December 13, 1984
	CJ	Bradley et al. "Formation of germline chimeras from embryo-derived teratocarcinoma cell lines" <i>Nature</i> (London), 309: 255-256, May 17, 1984
	CK	Eusebi and Siracusa "An Electrophysiological Study of Parthenogenetic Activation in Mammalian Oocytes " <i>Developmental Biology</i> , 96:386-395, 1983.
	CL	Cuthbertson, KSR "Parthenogenetic Activation of Mouse Oocytes in Vitro with Ethanol and Benzyl Alcohol" <i>J Exp Zool.</i> 226: 311-314, 1983
	CM	Alberts et al. "Egg Activation Is Mediated by Changes in Intracellular Ion Concentrations ^{36,37} " <i>Molecular Biology of the Cell</i> 804-809, 1983
	CN	McGrath and Solter "Nuclear Transplantation in the Mouse Embryo by Microsurgery and Cell Fusion" <i>Science</i> 220: 1300-1302, 1983
	CO	Martin, G "Isolation of a pluripotent cell line from early mouse embryos cultured in medium conditioned by teratocarcinoma stem cells" <i>Proc Nat Acad Sci.</i> 78: 7634-7638, 1981
	CP	Koyanagi and Nishiyama "Fate of Spermatozoa That Do Not Participate in Fertilization in the Domestic Fowl" <i>Cell Tissue Res</i> 214: 89-95, 1981
	CQ	Kaufman, MH "Parthenogenesis: a system facilitating understanding of factors that influence early mammalian development" <i>Prog. in Anat.</i> 1: 1-34, 1981
	CR	Evans and Kaufman "Establishment in culture of pluripotential cells from mouse embryos" <i>Nature</i> (London), 292: 154-156, 1981
mw	CS	Siracusa et al. "Parthenogenetic activation of mouse oocytes induced by inhibitors of protein synthesis" <i>J. Embryol. Exp. Morph.</i> 43:157-166, 1978

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mm	CT	Okamura and Nishiyama "The Passage of Spermatozoa through the Vitelline Membrane in the Domestic Fowl, <i>Gallus gallus</i> " <i>Cell Tiss. Res.</i> 188: 497-508, 1978
	CU	Bakst and Howarth, Jr. "Hydrolysis of the Hen's Perivitelline Layer by Cock Sperm in vitro" <i>Biol Reprod.</i> 17:370-379, 1977
	CV	Surani and Kaufmann "Influence of Extracellular Ca ²⁺ and Mg ²⁺ Ions on the Second Meiotic Division of Mouse Oocytes: Relevance to Obtaining Haploid and Diploid Parthenogenetic Embryos" <i>Dev Biol.</i> 59:86-90, 1977
	CW	Maeza and Buss "SPERM CONCENTRATION AND SPERM NUMBERS AS RELATED TO FERTILITY IN CHICKENS" <i>Poultry Science</i> 55(5): 2059, 1976
	CX	Tarkowski, AK "Induced Parthenogenesis in the Mouse" <i>The Developmental Biology of Reproduction</i> (C.L. Market, E.J. Papaconstantinon, eds.) 107-129, New York: Academic Press, 1975
	CY	Steinhardt, et al. "Is calcium ionophore a universal activator for unfertilized eggs?" <i>Nature</i> 252: 41-43, 1974
	CZ	Masui and Markert "Cytoplasmic Control of Nuclear Behavior during Meiotic Maturation of Frog Oocytes" <i>J Exp Zool.</i> 177: 129-146, 1971
	DA	Tarkowski et al. "Experimental Parthenogenesis in the Mouse" <i>Nature</i> 226: 162-165, 1970
	DB	Kaufman, MH "Parthenogenesis in the Mouse" <i>Nature</i> 242: 475-476, 1973
mm	DC	Olsen, MW "MATURATION, FERTILIZATION, AND EARLY CLEAVAGE IN THE HEN'S EGG" <i>J Morph</i> 70: 513-533, 1942
EXAMINER: 		DATE CONSIDERED: 10.18.02
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.		